E213.4) FRASE I BOOK EXPLOITATION CZECK/240A Mabbane, V., Doctory J. Bavalka, Engineer; Zd. Haastwee Doctor of Mathering; Zb. Haddidga, Engineer; J. Gluddek Ognedate in Physica); W. Houlds, Engineer; J. Gluddek Ognedate in Physica); W. Houlds, Engineer; J. Kuba, Doctor of Mathering; Zb. Houlds, Engineer; J. Kuba, Atom & Landing Carnella, Chroma of Machaer Engineering) Fraba, Made vojaco, 1957. 200 W. (Saries: University Vojáka) W. Ooc copies printed. Regimen; Battons: Engineer; Defto, Engineer; Mitterial Engineery; Engineer; Defto, Engineer; Matherial Engineery; Engineer; Defto, Engineery; Matherial Engineery; Engineery; Defto; Engineery; Matherial Engineery; Engineery; Engineery; Engineery; And Engineery; Engineery; Engineery; Engineery; And Engineery; Engineery; Engineery; Engineery; And Engineery; Engineer		luma	, 1	NN.					bears		 	- Comment		
Eabanec, V., Doctory Octory Operator of Meditalian Species of Meditalian Species of Meditalian States of Meditalia				Hrdlicks, Engineer; Zd. Hrdlicks, Engineer; V. Kouffs, Engineer; 10. W. Mysliver, Prof	a (The Atom and Nuclear Engineering) 1957. 290 p. (Series: Universita es printed,	ngineer; Drāka, Engineer; Hrglička, gineer; Spurny, Doctor; and Simáně, anielav Vobořil.	intended for the general reader. Lines the principles and operation of said fike use of radiolostopes. The intro-	t chapters deal with rea engineering, control an	ing and planned nuclear power i d. A short chapter is devoted thuckar power in Transportatio eport on radiotalotopes for indu- ton hazards and safety measures ned. There are 25 references.	And the state of t				
		•		Mabanec, V., Doctor; Doctor of Medicine; Conducte in Fays: Doctor of Marians	\$ * _	Meviewers: Bitther, M Miginer; Mulks, On Miginer; Md.: St	The book The	ictivity.	mentat itions seibil mainin n radio	TABLE OF CONTENTS:		:		
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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757420008-7

fükm, J.

"Water economy in metallurgic plants."

p. 95 (Hutnik, Vol.8, No. 3, March 1952, Fraha, Gzechoslovakia)

Monthly Index of Dast European Accessions (SEAI) LC. Vol. 7, No. 9, September 1958.

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757420008-7

TUM, J.; KIT.DI. V.

"Turboalternators with internal cooling of conductors."

ELECTROTECHNICKY CP70F. Praha, Czechoslovakia, Vol. 49, no. 5, May 1959

Monthly list of East European Accessions Index (EEAI), LC, Vol. 3, Vo. 2, August 1959

Unclassified

TUMA, J.; NADENIK, F.

Welded shaped water pipes with large profiles. p. 262.

VODNI HOSPODARSTVI. (Ministerstvo energetiky a vodniho hospodarstvi a Vedecka technicka spolecnost pro vidni hospodarstvi(Praha, Czechoslovakia, No. 6, June 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2, Feb. 1960.

Uncl.

Z/048/62/000/012/001/001

D409/D301

AUTHOR:

_Tuma, Jan, Engineer

TITLE:

Soviet nuclear power plants

PERIODICAL: Věda a technika mládeži, no. 12, 1962, 412 - 415

TEXT: This popular science article lists some technical data of Soviet nuclear power plants under construction and/or in operation and gives a two-page flowchart of the heat-exchange cycle of the No-vovoronez nuclear power plant and the fission reaction in a reactor with slow neutrons. Based on experience gained with the first experimental nuclear power plant in Obninsk near Moscow, several great nuclear power plants have been built in the USSR. The Beloyarsk nuclear, power plant, nearing completion, will have an efficiency of 35 - 38 % and is equipped with four 285-Mw, graphite-moderated, pressurized-water cooled reactors delivering 405 tons of steam per hour to the four 100-Mw turbines. The primary cooling cycle is operated with 110 atm. pressurized water, the secondary cucle with 500°C superheated steam. The main technical problem encountered in the reactor construction was to keep heavy radiation-shielding admixtures (iron Card 1/2

Soviet nuclear power plants

Z/048/62/000/012/001/001 D409/D301

and ore) evenly distributed during concrete setting. In the Voronezh Oblast, a fully automated nuclear power plant is nearing completion which will have an electrical output of 420 Mw and two pressurizedwater reactors each with a thermal output of 760 Mw. It is fuelled by 350 assemblies of UO2 slightly enriched with U-235, and its total uranium charge amounts to 40 tons. The primary cooling cycle has 6 loops operated with 275°C/100 atm. pressurized water, the 250°C/32 atm. superheated steam of the secondary cycle drives three 70 Mw turbogenerators. The nuclear power plant under construction in the Leningrad Oblast is of the same design. Power plant buildings are made predominantly of prefabricated concrete elements, have 120-m high ventilation stacks and large underground tanks for waste water. Additional nuclear power plant projects in the USSR include a boiling-water reactor with a 70 Mw turbine under construction in the Ulyanov-skaya Oblast, a 50 Mw liquid-sodium cooled reactor, a homogeneous reactor under construction on the Volga River, and a fast breeder which will produce plutonium or U-233 from U-238 or thorium respectively. It is expected that fast breeders will still be improved so that a 100 million kW power plant can be realized which consumes only 1,000 tons of uranium annually. There are 3 figures and a 2-page flowchart. Card 2/2

Z/048/62/000/002/001/002 D291/D304

AUTHOR:

Tuma, Jan, Engineer

TITLE:

On automatic installations which control RR traffic

PERIODICAL:

Věda a technika mládeži, no. 2, 1962, 52-55 and 67

TEXT: This is a popular article on automatic control and safeguarding train movements and classification-yard operations. The author briefly describes the development and functions of automatic blocks, car retarders, automatic train stops, automatic humps, etc, and refers to such equipment installed in the CSSR. Soviet automatic blocks are now installed on 500 km of Czechoslovak mainline tracks and eliminated the need to build a third track on the Prague - Česká Třebová line. By 1965, it is planned that automatic blocks will be installed on 1,180 km, line automatic train stops on 1,000 km, and simplified point automatic train stops on an additional 4,900 km of Czechoslovak mainline tracks. Centralized train control and safeguarding systems, where all signals and switches are

Card 1/2

On automatic ...

Z/048/62/000/002/001/002 u291/u304

controlled from one tower and train movements are indicated by colored lights on a master board, have been installed in Kolîn, Prague-Smîchov, of 126 main RR stations by 1965. Soviet car retarders are already installed in Nymburk and ten other classification yards, and a fully automated hump, controlled by a Soviet computer, will be installed in Česka for communication between the dispatcher and the engineer on route will systems of the entire Czechoslovak main RR line from Prague and Ostî nad are 6 figures. Abstractor's note: Drawings on pp 54-55 are by Engineer Radovan Cern§ .

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757420008-7

L 21488-66 -MP(ACC NR: AP6010966 LJP(c)

SOURCE CODE: CZ/0080/65/000/003/0067/0070

AUTHOR: Tuma, Jan (Engineer)

ORG: Graduate School of Economics, Prague (Vysoka skola ekonomicka)

TITLE: Teaching rachines and programmed teaching

SOURCE: Automatizace, no. 3, 1965, 67-70

TOPIC TAGS: teaching machine, computer programming

ABSTRACT: This article describes the various types of teaching machines developed in Czechoslovakia according to different methods of instruction and the problems in their development. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 05, 09 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001

SOV REF: OOL

CECH,M.; TUMA, J.; ZIZLAVSKY, V.

Enterogenic autotoxic methemoglobinemia in an infant (Stokvis-Talma syndrome). Cesk. pediat. 19 no.7:619-623 Jl 64

1. I. detska klinika (prednosta: prof. dr. Z.Brunecky) a klinika nemoci z povolari (prednosta: doc. dr. J.Vyskocil) lekarske fakulsty UJEv P [University J.E.Purkyne] v Brne.

VYSKOCIL, Jiri; TUMA, Jiri; SKLENSKY, Bohuslar

Experimental study on elimination of dust from the lung. I. Relation of bronchial and lung changes to elimination of silica dust in rats. Prac. lek. 16 no.3897-101 Mr²64

1. Klinika nemoci z povolani lekarske fakulty UJEvP [University J.E.Purkyne] v Brne; prednostaz doc. dr. J. Vyskocil.

CASEN, A., THERE, M. TOMA, J.

Microbial transformations of aberoids, XVIV. Separation of Androstans 17-hydroxy-optmers. Folia microbiol. (Prais) 9 no.6:380-382 S 164.

1. Secrearch lastitude of Tharmacy and Biochemistry, Prague.

TUMA, Jan, inz.

Teaching machines and programmed teaching. Automatizace 8 no.3: 67-70 Mr 165.

1. Higher School of Economics, Prague

CZECHOSLOVAKIA

CAPEK, O.; HAHC, O.; TADRA, M.; TUMA, L.; Research Institute of Pharmacy and Biochemistry (Vyzkumny Ustav pro Farmacii a Biochemii), Prague.

"Microbial Transformation of Steroids. XXVI. An Improved Method of Preparation of Cortisone from Cortexolone."

Prague, Ceskoslovenska Farmacie, Vol 15, No 4, May 66, pp 198-199

Abstract Authors' English summary modified 7: Beauveria bassiana strain No 663 gives a yield of over 90% in the transformation of cortexolone to epicortisol. The raw epicortisol is acetylized and oxidized selectively to cortisone acetate, without isolating the intermediate products. The acetate is saponified with sodium methylate; free cortisone is obtained with a yield of 78% calculated on the basis of the original cortexolone. With recrystalized cortexolone the yield increases to 80%. 3 Czech references. (Manuscript received 3 Aug 65).

1/1

Aerospace Medicine

CZECHOSLOVAKIA

PIPAL, M.; TIKA, J.; STVERAK, J.; RYBAK, F.; CUPALOVA, D.; BILA, J.; Institute of Aviation Medicine, Prague. Orig. version not given 7.

"Blood Sugar Level and Mental Performance in Man Under Heat Load."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 210-211

Abstract: Experiments were conducted on 30 men aged 20 - 22 years in the cockpit of a jet plane at 50°C and 17% RH. The exposure lasted for 120 minutes, followed by 60 min. of cooling to 20-22°. The subjects tolerated the high temperature rather badly as far as their comfort was concerned. Quantitative output of their mental performance was increased by the exposure, but the quality was low, mainly when activity without external stimulation was required. The temperature did not cause stress, but disturbed the equilibrium of glycide metabolism. No references. Submitted at the 4th Conf. of Exper. and Clin. Study of Higher Nerv. Functions, at Mar. Lazne, 12-15 Oct. 65.

1/1

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757420008-7

Medical Faculty of the University of J. Ev. Purkyna at Brno, Head Assistant Professor doctor J. Vyskocil / Klinika nemoci z povolani lekarske fakulty UJEVP v Brno, prednosta doc.dr. J. Vyskocil 7.

"Elimination of Silica Dust from the Lungs of Rats and the Influence Upon it Caused by Inhalation of Aerosols".

Prague, Pracovni Lekarstvi, Vol 15, No 8, 1963, pp 334-338

Abstract: A short term experiment on rats was performed. Their lungs were dusted with silica (96% silicon dioxide with 72% of the particles smaller than 1.25 microns). The application was made in 3 days, and the rats were subjected to physical exertion during the dusting. The initial load of dust was 720-960 gamma in the lungs of a rat and the elimination after a month was 63 to 68%. Inhalation of calcium chloride in mineral water had no significant effect; inhalation of a solution containing fluorides decreased the elimination by about 50%.

1 Figure, 4 Tables, 7 Western, 4 Czech references.

1/1

6

PIPAL, M.; MORAVEK, M.; TUMA, J.

Control of the contro

Effect of fasting of several days' duration on some higher nervous activity functions in man. Activ. nerv. sup. 4 no.2:187 '62.

1. Ustav leteckeho zdravotnictvi.

(CENTRAL NERVOUS SYSTEM physiol) (FASTING)

VYSKOCIL, J.; TUMA, J.; DIJJHOS, M.

Effect of acute inflammation on the distribution and elimination of quartz dust from rabbit lungs. Experimental study on elimination of dust from the lungs. Scr. med. fac. med. Brunensis 36 no.7:351-362 163.

1. Klinika nemoci z povolani UJEP v Brne. Prednosta: doc.dr. J. Vyskocil, a II patologicko-anatomicky ustav UJEP v Brne. Prednosta: prof. dr. M. Dluhos.

TUMA, J. VYSKOCIL, J.

Elimination of silicon dust from the rat lung and the effect of aerosol inhalation. Prac.lek.15 no.8:334-338 0'63.

1. Klinika nemoci z povolani lekarske fakulty UJEvP v Brne, prednosta doc.dr.J.Vyskocil.

V

L 12948-66

ACC NR: AP6005670

SOURCE CODE: CZ/0079/65/007/002/0181/0183

AUTHOR: Tuma, J.; Sturma, A.; Kanturek, V.; Dankova, J.

ORG: Institute of Aviation Medicine, Prague; Military Academy, Prague; Institute of Industrial Hygiene and Occupational Diseases, Prague

TITLE: Psychophysiological and biochemical study in university students during examinations [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 181-183

TOPIC TAGS: psychophysiology, biochemistry, man, vision

ABSTRACT: Methods relating to different functional levels of algher nervous functions were used. An arithmetical test, a test for critical frequency of intermittent visual stimulation, and the clock test (stopping a clock at a given point on the dial). Twelve students aged 30-35 years were studied. In all students an increase in the performance after the examinations was found. The flicker fusion frequency was only slightly altered. However, neurotic students showed a lower performance with the clock test after the examinations. The changes were not due to the importance of the load but more to the conditions under which the tests were made. The CNS showed changes that indicate a negative effect of mental strain. Orig. art. has: 1 table. JPRS/CODE: 05, 06 / SUEM DATE: none

CZECHOSLOVAKIA

UDC 614.715(51,1.182.3)-073 5.81

SIMECEK, Jaroslav; TUMA, Jiri; Institute for Hygiene of Work and Occupational Diseases (Ustav Hygieny Prace a Chorob Z Povolani), Prague, Director (Reditel Prof Dr J. TEISINGER. Research Institute for Air Technology (Vyzkymny Ustav Vzduchotechniky), Prague.

"Determination of Dust Dispersion."

Prague, Pracovni Lekarstvi, Vol 18, No 3, Apr 66, pp 116 - 120

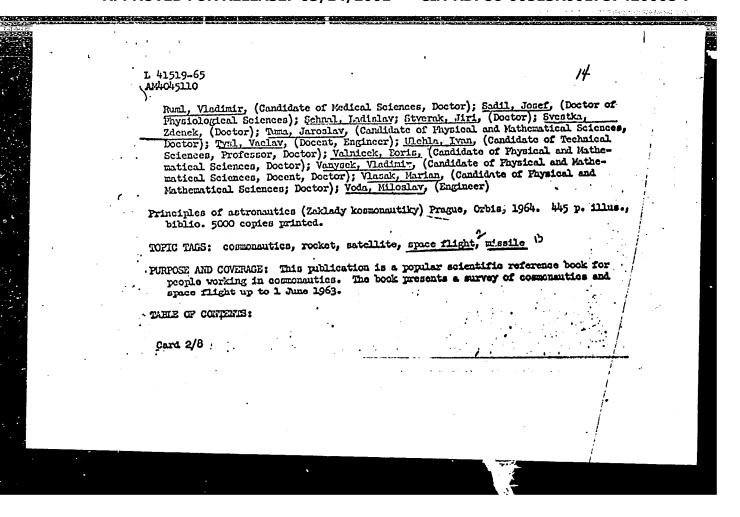
Abstract: The authors studied standard conditions for optical microscopy to find the accuracy and reproducibility of dust dispersion determination, and find a suitable gravimetric method for quantitative dust determination. The behavior of aerosols can be determined on the basis of the geometrical shape of the particles, from hydrodynamic properties of the particles, from their optical properties. The methods of expressing the dispersity of dust are described. The expression of the dispersity is discussed. The connections between the number of particles and their weight are discussed. 1 Figure, 1 Table, 6 Western, 4 Czech, 2 Russian references. (Manuscript received 27 Apr 65)/

1/1

- 24 -

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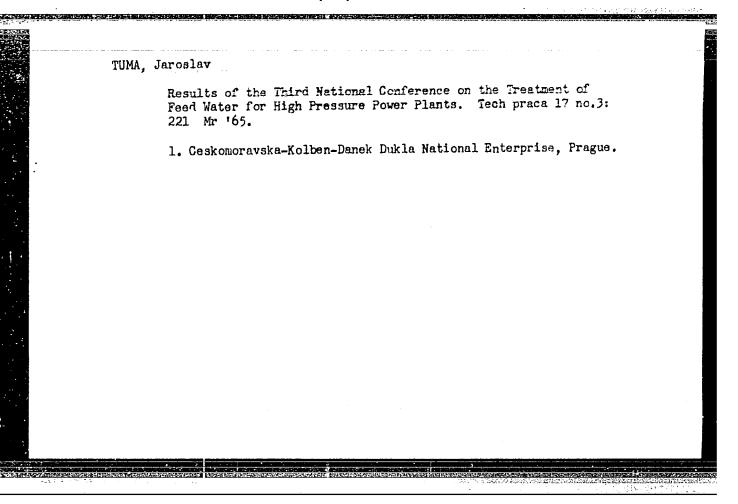
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TUMA, J.; STURMA, A.; KANTUREK, V.; DANKOVA, J.

A psychophysiological and biochemical study in university students during exams. Activ. nerv. sup. (Praha) 7 no.2: 181-183 '65

1. Institute of Aviation Medicine, Prague; Military Academy, Prague and Institute of Industrial Hygiene and Occupational Diseases, Prague. 2. J. Tuma's address: Praha 6, Na dlouhem lanu 14.



CZECHOSLOVAKIA

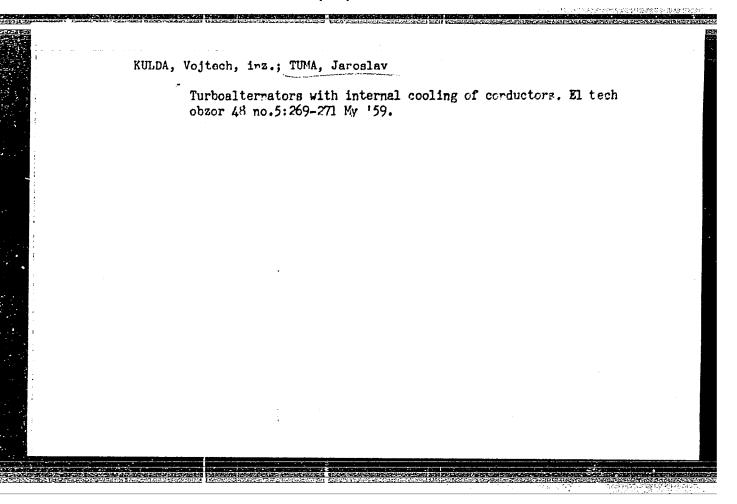
TUMA, Jaroslav, MD, Lt Col, Institute of Aviation Medicine, (Ustav leteckeho zdravotnictvi,) Prague.

"Laboratory Tests of Ability to Analyze Complex Field of Stimuli in Relation to Flight Duty."

Prague, Vojenske zddavotnicke listy, Vol 32, No 2, Apr 63; pp 66-71.

Abstract [English summary modified]: Description of device and method for testing discrimination and rapidity of response to multiple stimuli which may occur in random sequence and frequency, requiring various types of motor responses; results in 340 persons, mostly pilots or flight cadets. Various correlations are tabulated. Five tables, 2 photographs; 1 Soviet personal communication and 7 Western references.

1/1



TEJMAR, Jaroslav; TUMA, Jaroslav

Attempt to use the test of reproduction of the time interval in selection of workers. Pracovni lek. 13 no.4:178-180 My *61.

1. Ustav hygieny, Praha, red. doc. dr. Karel Symon, Ustav leteckeho zdravotnictvi.

(INDUSTRIAL MEDICINE)

TUMA, Jaroslav

Research on power plants, and their development. Tech praca 15 no.3:238-240 Mr '63.

1. Zavodni pobocka Ceskoslovenske Vedecko-technicke spolecnosti, Ceskomoravska- Kolben-Danek Dukla, Praha.

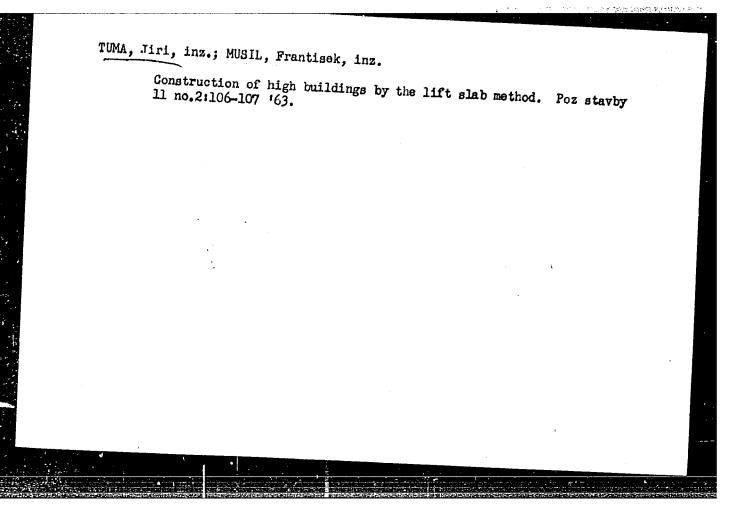
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TUMA, Jiri, VYSKOCIL, Jiri, DINHOS, Max

Biochemical studies of experimental pulmonary fibrosis. Pt.1. Ser. med. fac. med. Brunensis 38 no.2/3:85-106 165.

1. Klinika nemoci z povolani lekarske fakulty University J.E. Purkyne v Brne (Prednosta: Prof. MUDr. Jiri Vyskocil) a II. patologicko-anatomicky ustav lekarske fakulty University J.E. Purkyne v Brne (Prednosta: Prof. MUDr. Max Dluhos).

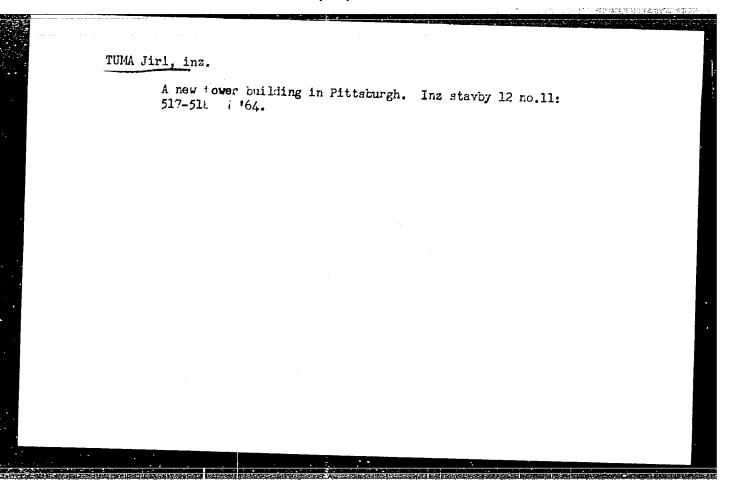


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TUMA, Siri, inz.

Streis loaded flange plates of steel girders. Inz stayby 9 no.9:

1. Transporta, n.p., Praha.



41361

S/081/62/000/018/018/059 B177/B186

5.5650

AUTHOR:

Tuma, Jiri

TITLE:

A method and a device for measuring the concentration and particlesize of aerosols

PERIODICAL: Referativny, zhurnal. Khimiya, no. 18, 1962, 302, abstract 181124 (Czechosl. patent 98334, January 15, 1961)

TEXT: Existing methods of measuring the concentration and particlesize of aerosols, particularly when diluted and monodispersed, are based on successively passing monochromatic light of two wavelengths through a given volume of aerosol. The drop in the intensity of the light, owing to adsorption and scatter in the aerosol, is measured in each case. The absolute values of the measured quantities and the ratio between them determine respectively the concentration and the particlesize of the aerosol. A disadvantage of the optical measurements is the/asynchronism, which may lead to errors due to the unsteady state of the aerosol. The proposed method eliminates these disadvantages by measuring the scatter and absorption of the light by the aerosol on the two wavelengths practically simul-Card 1/2

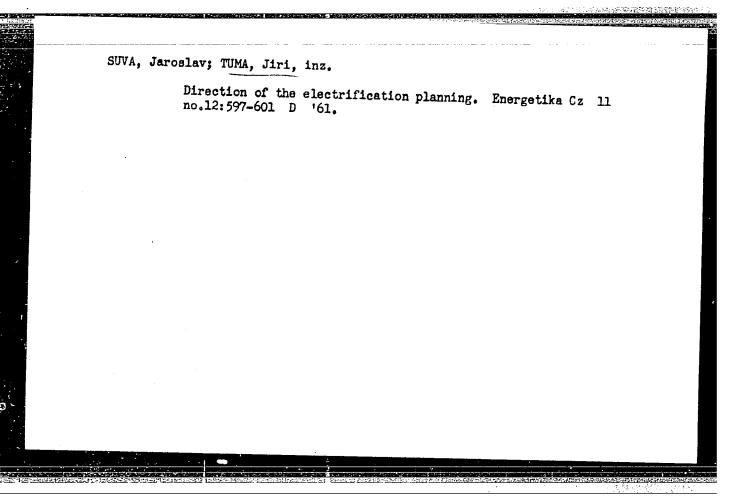
A method and a device ..

S/081/62/000/018/018/059 B177/B186

taneously and continuously. A parallel beam of rays from a source, passing through a condenser, is focused and passed through a bulb containing the aerosol under examination. The light then passes through 2 light filters inserted in an obturator and falls on a photo-element. The obturator are inserted successively. The signals arriving at the photo-element continuously possess a constant and a variable component, the first of which of the particlesize. These signals are amplified and recorded.

[Abstracter's note: Complete translation.]

Card 2/2



PHASE I BOOK EXPLOITATION

CZECH/5248

Toma, Jiri, Engineer

Letecké palubní přístroje (Aircraft Instruments) Prague, Nase vojsko, 1960. 214 p. (Series: Knižnice svazarnu, sv. 1) 3,000 copies printed.

Resp. Ed.: Jiří Muk; Tech. Ed.: Blanka Jiraskova.

PURPOSE: This textbook is intended for pilots, student pilots, and flying and seronautical instructors.

COVERAGE: The book contains material for courses of instruction conducted in Czechoslovak aviation clubs. It is designed to give practical data supplementing textbooks on theory. The author briefly reviews basic theoretical principles, and then describes principal aircraft instruments and related devices. Basic information on related aircraft equipment is also given. The objective of the book is to explain the design of the various instruments and devices and show how to use them. Section 5 was written jointly by the author and Olga Kruliskova, Engineer. Bohumil Langer wrote Section 15. There are 23 references: 20 Czech

Card 1/4

A1	rcraft Instruments	CZECH/5248
	(including 1 translation), 2 Polish, and 1 German.	
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TUMA, K.

"How to replace greases in leather lubricants with chlorinated naphthalenes."

p. 158 (Kozarstvi) Vol. 6, no. 8, Aug. 1956 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

TUMA, K.

"How to replace greases in leather lubricants with chlorinated naphthalenes." (To be contd.)

p. 134 (Kozarstvi) Vol. 6, no. 7, July 1956 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

11-35 CUECHOSLOVAKI / Chemical Technology. Chemical Products and Their Application. Leather. Fur. Gelatine. Terming Materials. Industrial Proteins. Abs Jour: Ref Zhur-kimin., No 2, 1959, 6953. Author : Turn, Karel. : Substitution of Fats with Chlorinated Maphthalene in Inst Title Fatliquoring of Leather. Orig Pub: Kozarstvi, 1956, 6, No 7, 134-136. Abstract: The fat-liquoring properties of products, in which Cl is bonded with the aromatic ring of naphthalene, were studied. It is important in the application of chlorinated naphthalene to fat-liquoring of leather that its melting point should be low and that the goods made from the fat-liquored leather should not become hard : 1/2 Card 179

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their

∷-35

Application. Leather. Fur. Gelatine. Tanning

Materials. Industrial Proteins.

Abs Jour: Ref Zhur-Khin., No 2, 1959, 6953.

and brittle at very low temperatures. Eutectic mixtures of monochloronaphthalene with dichloronaphthalene were prepared in order to obtain a low melting point, which increased the total content of chlorine in the fat-liquor mixture. The chlorinated product was separated into 4 fractions. The main fraction as far as the amount was concerned, obtained in the range from 220-250°, was tested in fat-liquoring specimens of leather with the application of 3% of the enalsifier NILO O. Whose experiments confirmed the fat-liquoring properties of chlorinated naphthalene. -M. Lyuksemburg.

Card : 2/2

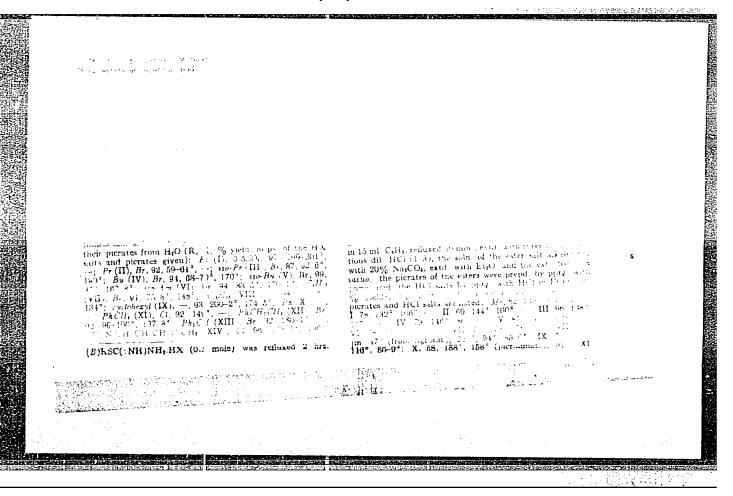
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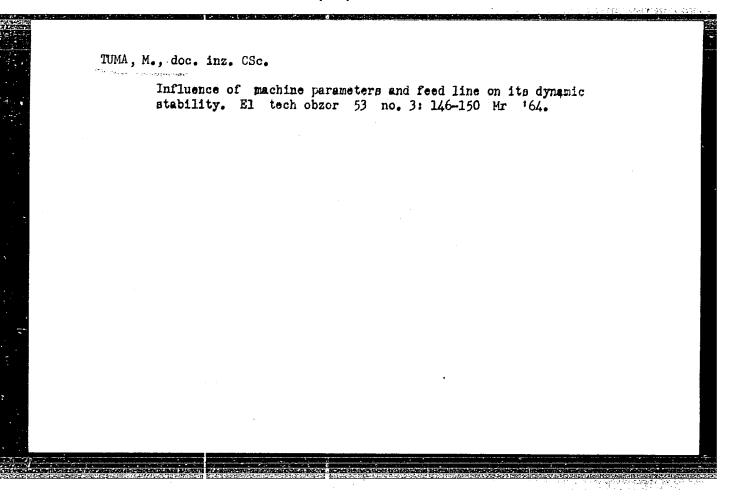
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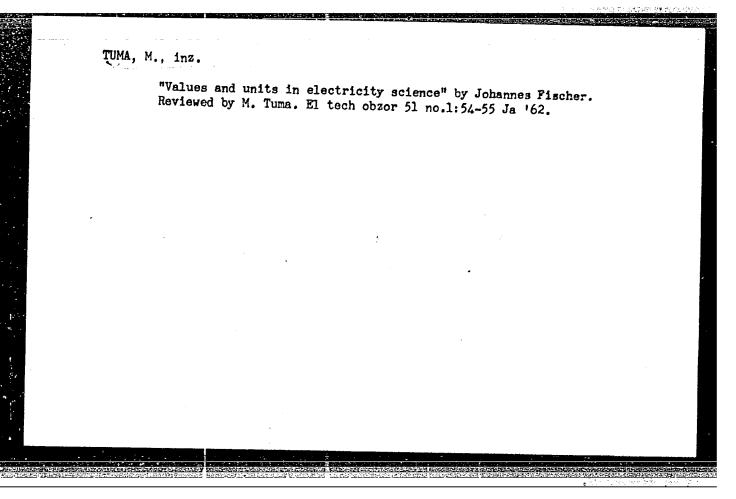
TUMA, Karel, inz.

Reorganization of the production of prefabricated elements for building houses and public buildings in the North Bohemia Region. Poz stavby 13 no.1:8-13 '65.

1. Regional Association of Building Industry National Enterprises, Usti nad Labem.

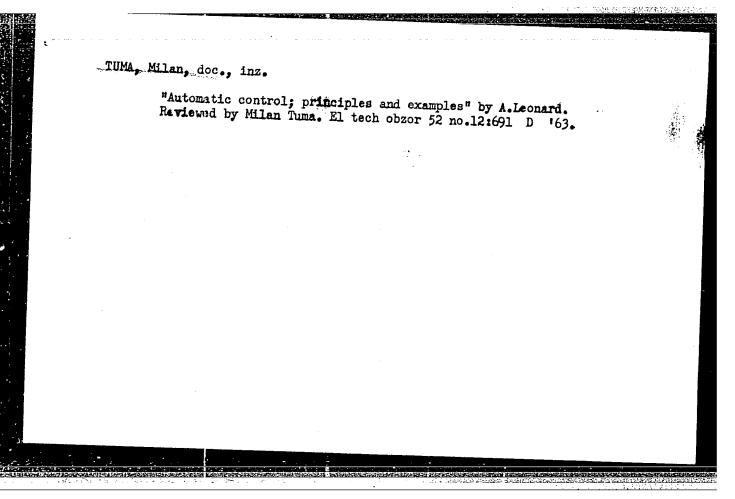






TUMA, Milan, doc., inz., kandidat technickych ved; NASR, M.A., inz., kandidat technickych ved

A model method for determining the economic load of steam power stations operating within an electric power system. El tech obzor 51 no.11:571-577 N '62.



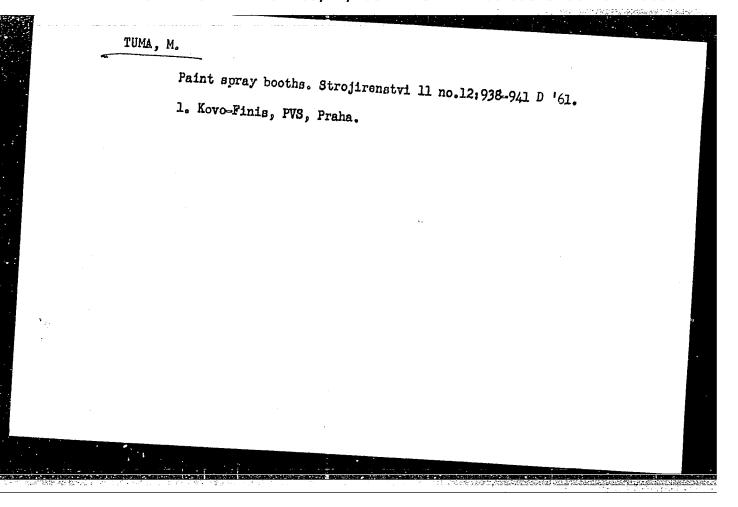
TUMA, Milan, inz., kandidat technickych ved.

"Power system engineering. An introduction" by F. de le Chard. Reviewed by Milan Tuma. El tech obzor 51 no.10:559-560 0 162.

TUMA, M.; HON, A.

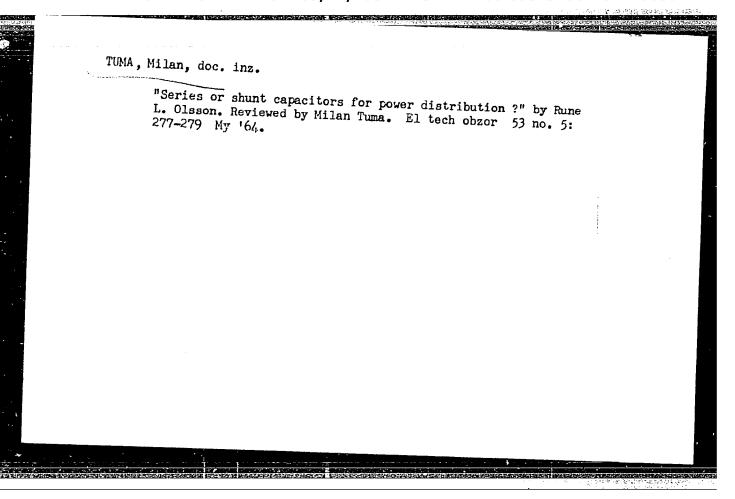
"Investigation of the electric field in the vicinity of a high-voltage insulator." Elektrotechnicky Obzor. Praha, Czechoslovskis. Vol. 47, no. 10, Oct. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas



TUMA, M., doc., kandidat technickych ved

"Electric-power engineering" by Holub, Vosicky, Reviewed by M. Tuma. El tech obzor 52 no.5:271-272 My .163.



TUMA, Matija, dipl. inzenir strojnistva

Degree of exergy efficiency depending on the preheated air temperature with regard to various caloric values. Stroj vest 10 no. 1/2:19-21 Ap '64.

1. "Rog" Factory, Ljubljana, Trubarjeva 72.

RONES, Josef, inz.; TUMA, Miroslav

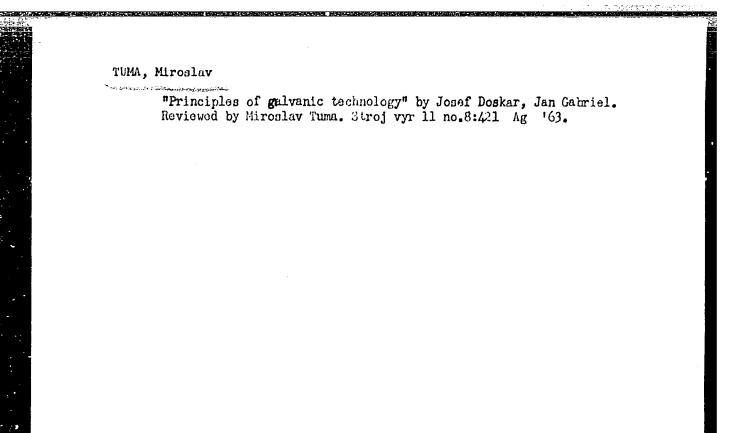
A continuous inhibitor analyzer for pickling baths. Tech praca
14 no.12;980-982 D '62.

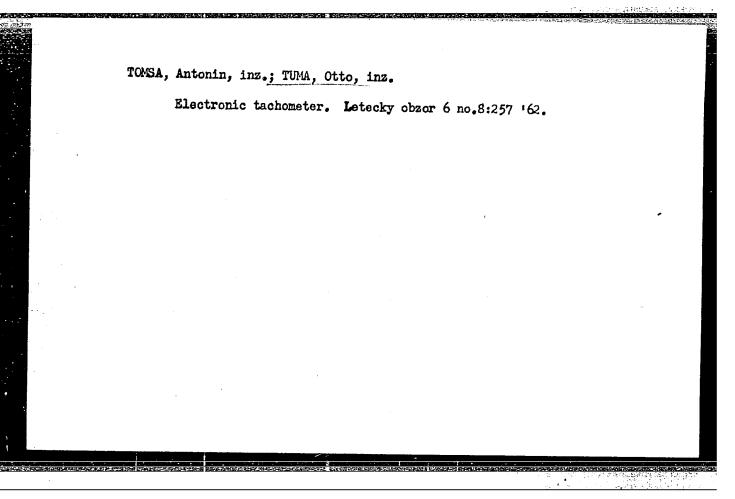
1. Kovo-Finis, n.p., Projekcni a vyvojove stredisko, Praha.

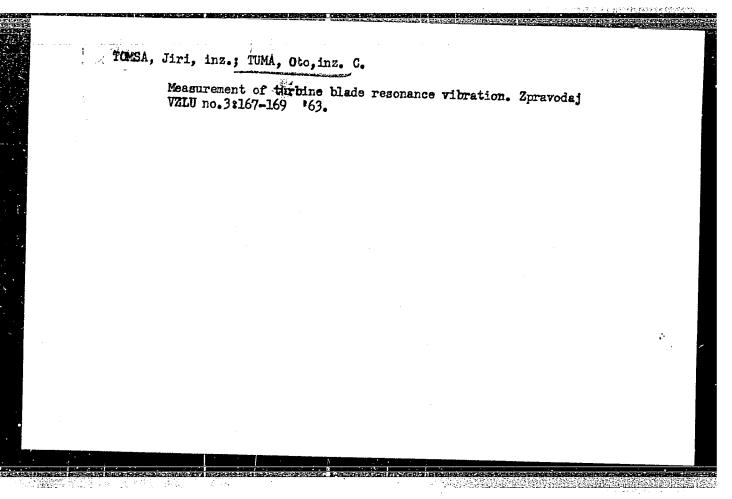
TUMA, Miroslav

Mechanization and automation in application of coating materials. Stroj vyr 11 no.11:558-562 N.63.

1. Kovo-Finis, n.p., PVS, Praha







z/040/62/000/008/001/002 D005/D102

AUTHOR:

Tomsa, Antonín, Engineer and Tuma, Otto, Engineer

TITLE:

Electronic revolution meter

PERIODICAL:

Letecky obzor, no. 8, 1962, 257

TEXT: The article describes an electronic revolution meter with photoelectric pickup of revolutions that can measure speeds up to 100,000 rpm with a ± 1-rpm accuracy. In addition, the instrument can measure frequencies of sinusoidal and nonsinusoidal voltages up to 100 ke with an accuracy of ± 1 kc, and time intervals from several milliseconds to several hours with an accuracy of ± 10 microseconds. The revolution meter operates on the principle of pulsed pickup of revolutions with indication on a digital electronic counter. The entire set has a size of 490x730x340 mm and consists of a photoelectric pickup, a frequency substandard, an electronic timer and an electronic counter, all arranged into three interconnected panel units. The panel arrangement makes possible independent use of the individual panels e.g., as an independent counter with manual or remote

Card 1/2

Electronic revolution meter

Z/040/62/000/008/001/002 D005/D102

control; as a source of electric impulses with variable intervals; or as a source of accurate frequencies. There are 3 figures.

Card 2/2

TUMA, R.

Problems regarding two-shift work with steam shovels in all branches of construction is proposed to raise the low level of labor productivity.

P. 230. (STAVBA.) (Bratislava, Czechoslovakia) Vol. 4, No. 8, Aug. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

SNOBL, O.; TUMA, S.

Diagnostic difficulties in roentgen examination of congenital diaphragmatic hernia and pulmonary sequestrations. Cesk. pediat. 18 no.4:320-328 Ap 163.

l. Katedra fakultni pediatrie fakulty detskeho lekarstvi KU v
Praze, vedouci prof. dr. J. Houstek.

(DIAPHRAGMATIC HERNIA) (LUNG DISEASES)

(THORACIC RADIOGRAPHY) (PNEUMOTHORAX)

(PNEUMOPERITONEUM, ARTIFICIAL)

(DIAGNOSIS, DIFFERENTIAL)

SNOBL, O.; COPOVA, M.; TUMA, S.

Intrathoracic round shadows in childhood and their differential diagnosis. Cesk. pediat. 18 no.10:922-930 0 '63.

1. II detska klinika fakulty detskeho lekarstvi v Praze, prednosta prof. dr. J. Houstek. DrSc. (THORACIC RADIOGRAPHY) (ABNORMALITIES)

(THORACIC RADIOGRAPHY) (ABNORMALITIES)
(PARASITIC DISEASES) (THORACIC DISEASES)
(THORACIC NEOPLASMS) (DIAGNOSIS, DIFFERENTIAL)

TUMA, Stanialav, inz.

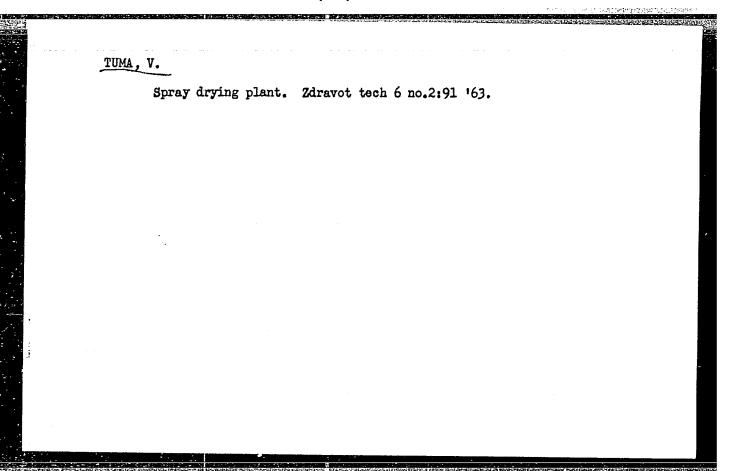
"Electric automation equipment in industry" by Jiri Triska. Reviewed by Stanislav Tuma. Sklar a keramik 13 no.5:3 of cover My 163.

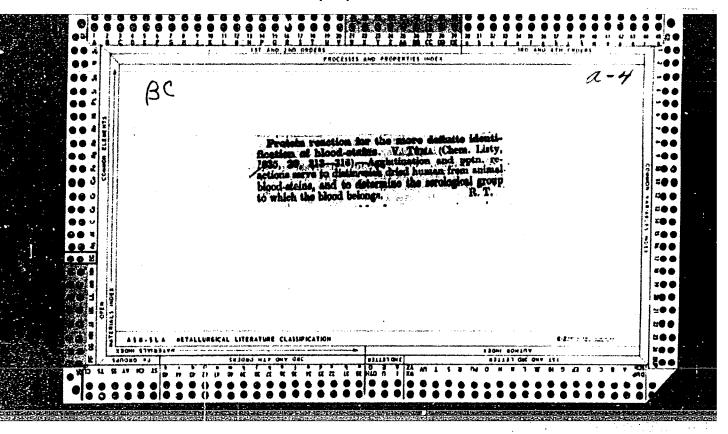
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757420008-7"

CERMAK, J.; TUMA, S.; ZAPLETAL, A.

Volume of the heart and its relation to the height, weight and body composition in obese boys. Cesk. pediat. 20 no.10: 867-872 0 165.

1. Vyzkumny ustav telovychovny v Praze (prednosta doc. dr. E. Eiselt, CSc.) a II. detska klinika fakulty detskeho lekarstvi Karlovy University v Praze (prednosta prof. dr. J. Houstek, DrSc.).



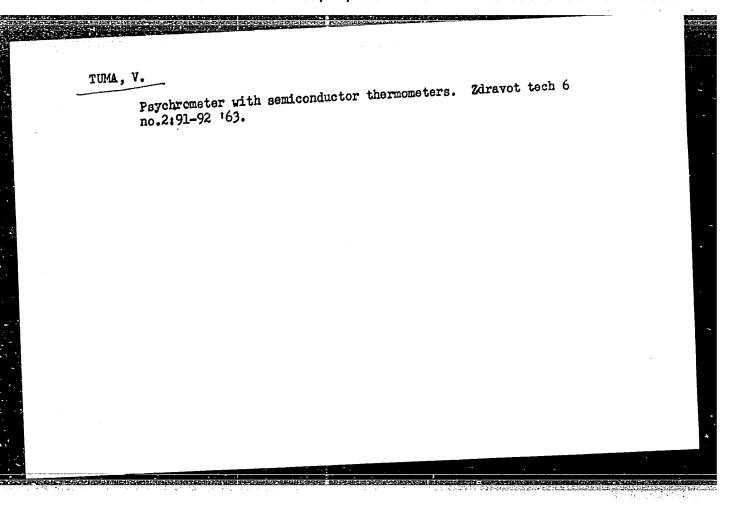


TUMA, V.

Contribution to the question of drying polyvinyl chloride. p. 161.

Ceskoslovenska vedecka technicka spolecnost pro zdravotni techniku a vzduchotechniku. SBORNIK. Praha, Czechoslovakia. No. 3, 1958.

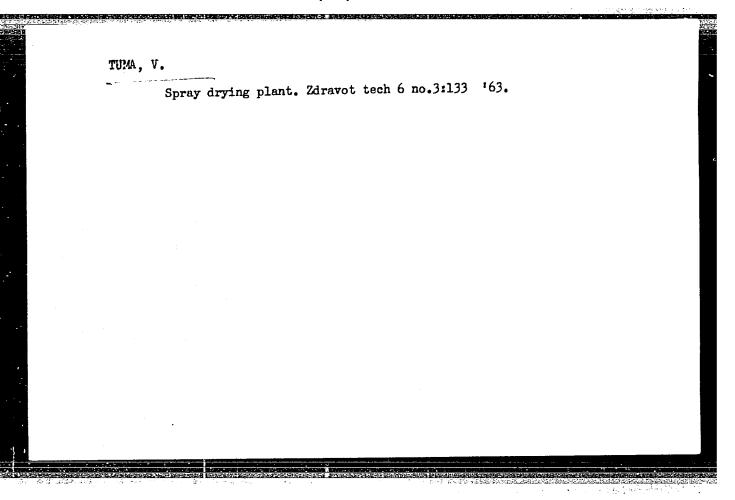
Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 10. Oct. 1959. Unol.



TUMA, V., inz. kandidat technickych ved.

Ammonium sulfide drying room. Zdravot tech 7 no. 2:79 '64.

Conference on advanced methods of drying in the chemical industry. Ibid.:79-80



Tuma, V.

"Contribution to solving the problem of drying polyamide cuts.

p. 187 (Sbornik, No. 1, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) IC, Vol. 7, No. 6, June 1958

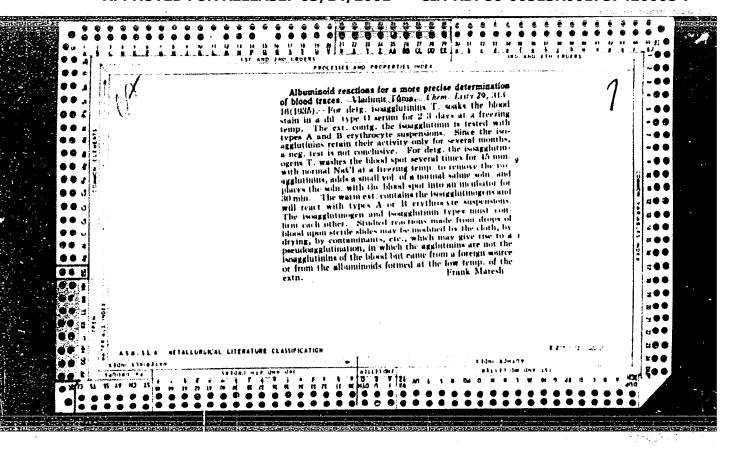
TUMA, Vaclav, inz. CSc.

Fleat manameter for determining low pressures. Zdravot tech 7 no. 6:244-249 '64.

Mobile fluid drier of grain. Ibid. \$275.

Transmission of heat and transfer of substance in circular spray driers. Ibid.: 275-276.

1. State Resea ch Institute of Heat Technology, Prague.



TUMA, Zdenek, inz.

Measurement of important transistor properties. Sdel tech 11 no.9:346-348 S *63.

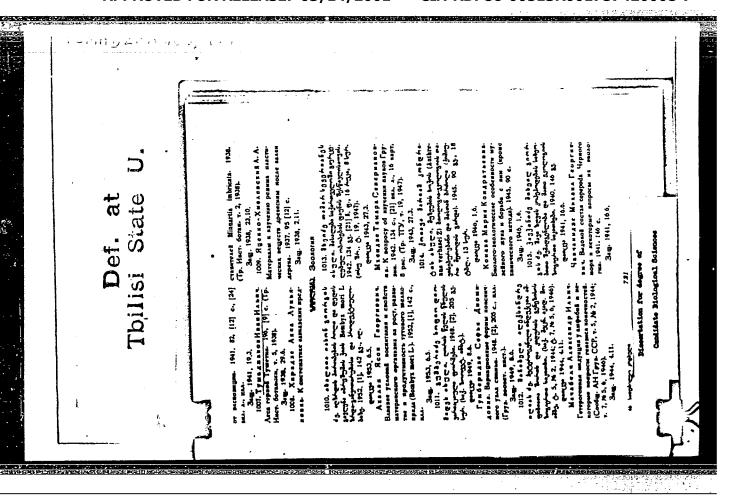
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CIA-RDP86-00513R001757420008-7

23188-66 EnF(w)/EnA(d)/I/EnF ACC NR: AP6008073 SOURCE CODE: CZ/0065/66/000/001/0064/0073 AUTHOR: Tuma, Hanua-Tuma, Ganush; Rysava, Marie--Ryshava, Mariye; Lobl, Karel-Lebl, Karel ORG: SVUM, Prague TITLE: Contribution to the study of fracture surfaces on stainless steels of the type <u>Crl8N19Ti</u> 27 27 27 SOURCE: Kovove materialy, no. 1, 1966, 6h-73 TOPIC TAGS: stainless steel, annealing, carbide, corrosion, steel, material fracture, electron microscopy/Crl8Ni9Ti steel ABSTRACT: The paper describes some results of an investigation of the fracture surfaces of type Crl8Ni9Ti steels performed by the electron microscopy method. the process, polarization curves in different electrolytes were determined, and the chemical composition of the fracture surfaces was estimated. The differences in morphology as well as in the rate of precipitation of the M23C6 carbides on the boundaries of grains were identified. While the carbides were precipitated after 5 minutes of annealing at 750C on the boundaries $\gamma \sim \delta$, intensive precipitations took place only after one hour of annealing on the boundaries γ - γ . This corresponded to the state when the material develops a tendency to intergranular corrosion. Selective dissolution of areas tending toward this corrosion can be attained in a 5 per cent formic acid electrolyte. The original amount of 18 per cent Cr was found reduced to 10 per cent in the region of fracture. A small increase in nickel Card 1/2

content was observed which, however, cannot prevent the starting of corrosion. The results of investigation are in accordance with the Rollason's curve for the						
The results of investigati steel investigated, and co corrosion of Crl8Ni9Ti ste of grain boundaries after ures, and 1 table. [Based	nfirm the the els is caused precipitation	eory that to d by the lo n of M ₂₃ C ₅	he tender wering of carbides	ncy to intere	granular in the reg	gions
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TUMADZHANOV I. I.

Tumadzhanov. I. I.- "An outline of the swarp vegetation of the Teberda valley."

Trudy Tbilis. botan. in-ta, Vol. XII, 1948, p. 17-54, (Resume in Georgian), -

S0: U=h93h, 29 Oct 53, (Letopis 'Zhurn 1 'nykh Statey, No. 16, 1949).

Bibliog: p. 54

TUMADZHANOV, I. I.

Tumodzhanov, I. I. and Mechedlishvili, P. A. "The post glacial mobility of forest vegetation in the Teberda valley according to pollen analysis data." Trudy Thills. botan. in-to, Vol. XII, 1948, p. 73-85 (Resume in Georgian), -Bibliog: 22 items

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757420008-7"

TUMADZHANOV, I. I.

28317

(Sfagnovoye Boloto Khorla--Kyelb u lodnozhbya elbbrusa. (Flora). Zamyetki po sistyematikye i gyeografii ras tyenty (akad. Nank. Gruz. SSR, IN - T Botaniki), Byp. 15, 1949, S. 99-104-Ryeztumye na gruz. Yaz. - Bibliogr: 6 Narv.)

So: Letopis No 34

Data on the sedge family in the region of Mount Elbrus. Zam.po sist.i geog.rast. no.17:146-156 '53. (MLEA 8:9) (Elbrus, Mount--Sedges)

Professor Nikolai Ivenovich Kuznetsov and the study of the history of Caucacian forest vegetation. Bot.zhur. 42 no.9:1315-1324 S '57.

1. Institut botaniki Akademii Grozinskoy SSR, Tbilisi.
(Kuznetsov, Nikolai Ivanovich, 1864-1932) (Caucasus--Forest ecology)

History of vegetation landscapes in the western part of the Skalistyye Mountains. Trudy Tbil.bot.inst. 20:363-410 (MIRA 13:8)

(Skalistyee Mountains—Paleobotany)
(Mountain ecology)

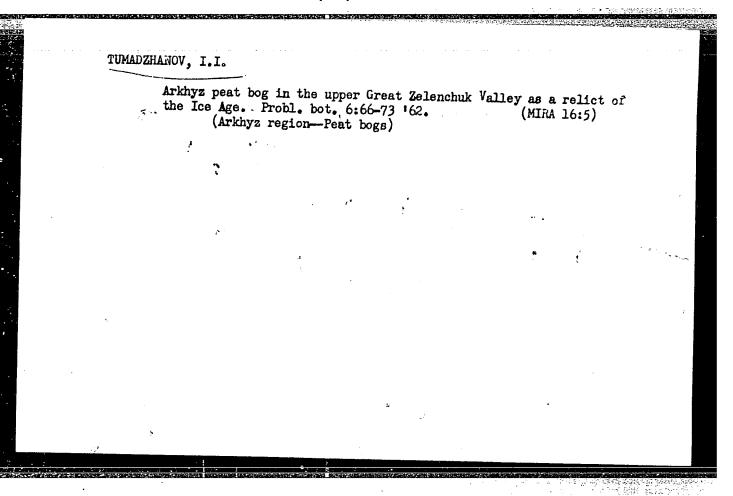
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Stunted forests and growths of creeping shrubs in the Teberda basin in connection with landscape succession in the subalpine region of the northern slope of the Greater Caucasus. Probl. bot. 5:148-162 160. (MIRA 13:10)

1. Botanicheskiy institut AN GruzSSR, Tbilisi.
(Caucasus—Mourtain ecology)

Principal features of the plant cover in the region of moderately high mountains of the northwestern Caucasus with regard to the inversion of landform belts. Trudy Tbil.bot.inst. 21:157-213 '61. (MIRA 14:10)

(Georgia -- Mountain ecology)



TUMADZHANOV, I.I.; KETSKHOVELII, N.N., red.; CHICHUA, S.K., red.
izd-va; DZHAPARIDZE, N.A., tekhn. red.

[Fractional geobotanical zoning of the northern slope of the Greator Caucasus] Ogyt drobnogo geobotanichekogo raionirovaniia severnogo sklona Bol'shogo Kavgaza; na primere Karachaia. Tbilisi, Izd-vo AN Gruz.SSR, 1963. 240 p.

(MIRA 16:12)

(Caucasus—Phytogeography)

TUMADZHANCV, I.N.; MARCALITADZE, N.A.

History of forests of the Kartlian and Kakhetian Ranges in the Holocene. Soob. AN Gruz. SSR 27 no.4:4\$1-458 0 '61. (MIRA 15:1)

1. AN Gruzinskoy SSR, Institut botaniki. Predstavlene-akademikom N.N. Ketskhoveli.

(Kartlia-Paleobotany, Stratigraphic)

(Kakhetian Range-Paelobotany, Stratigraphic)

KHORUNZHEVA, L.D.; LYUDVIG, A.D.; MASHTAKOVA, Z.A.; TUNAILOVA, L.M.

Extermination of favus in the Bakharden, Geok-Tepinsk, and Ashkhabad Rural Districts. Zdrav. Turk. 5 no.6:28-29 N-D '61. (MIRA 15:2)

1. Iz dispansernogo otdela (zav. - L.D.Khorunzheva) kozhnovenerologicheskogo instituta (nauchnyy rukovoditel - prof. N.F. Rodyakin).

(TURKMENISTAN-FAVUS)

TUMAK, Ye.V., inzh.

Changing design loads for highwey bridges. Avt.dor. 20 no.8:
24-25 Ag '57.

(Bridges-Design)

(Bridges-Design)

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E201/E191

TITLE:

AUTHORS: Shukhtin, A.M., Yegorov, V.S. and Tumakayev, G.K. A Continuous-Spectrum Emission Source Capable of Single

Short-Duration Flashes

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 3,

pp 423-424 (USSR)

ABSTRACT: The authors describe a light source with continuous emission spectrum capable of single short-duration flashes of great intensity. The main part of the source is a demountable capillary discharge tube (Fig 1). The casing of the tube (13) is a thick Perspex cylinder inside which a porcelain capillary (14) of 3-4 mm internal diameter is fitted. Electrodes (1) and (10) are attached to the cylinder and the outer ends of the electrodes are fitted with windows (2). One of these windows is made of quartz or glass and is used for transmission of the flashes. Working conditions the windows become dimmed by deposits on them and have to be cleaned or replaced regularly. A lens (5) is used to produce a parallel light beam. An auxiliary (starting) electrode (9) is placed in the middle of the discharge capillary. To reduce the strong inductance of the

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A Continuous-Spectrum Emission Source Capable of Single Short-Duration Flashes

> discharge circuit the electrodes were connected directly to terminals of a capacitor (0.56 µF, charged to 25-30 kV) used to produce the discharges. The air pressure in the discharge capillary could be regulated so that at a given steady potential difference across the tube spontaneous discharges would not occur and that when a firing pulse was fed to the tube the discharge would occur rapidly and easily. In the tube described here the optimum air pressure was 130-150 mm Hg. The electrical circuit is shown in Fig 2. The authors used a hydrogen thyratron TGI1-400/16% which ensured that a discharge was produced about 1 usec after an appropriate positive signal was applied to the thyratron grid. Fig 3, I, shows the oscillograms of the discharge current (curve a) and the optical flash (curve 6); the optical flash existed only during the first half-period of the discharge, i.e. about 3-5 usec. Fig 3, II, shows the oscillograms of the prical flash and time marks which represent 1 usec each. The spectra of the flashes were found to be continuous

Card 2/3

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A Continuous-Spectrum Emission Source Capable of Single Short-Duration Flashes

between 2200 and 6500 %.

Card 3/3 There are 3 figures.

SUBMITTED: November 12, 1959

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27175 \$/057/61/031/009/015/019 B104/B102

24,4300

AUTHORS: Dunayev, Yu. A., Tumakayev, G. K., and Shukhtin, A. M.

TITLE: Interference method by Rozhdestvenskiy for studying gasdynamic

processes in shock tubes

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 9, 1961, 1119-1126

TEXT: The authors describe an experimental arrangement for studying gasdynamic processes by an interference method suggested by D. S. Rozhdestvenskiy (Raboty po anomal'noy dispersii v parakh metallov (Papers on anomalous dispersion in metal vapors), Izd. AN SSSR, 1951). They give preliminary data on the concentration of normal and excited Hg atoms, the temperature of the gas flow behind a shock wave, and on values of the number f for some Hg lines. Figs. 1 and 2 show the experimental arrangement. The low-pressure chamber was made of copper and had a cross section of 38 by 76 mm; the distance between the diaphragm separating the low-pressure from the high-pressure section of the chamber, and the window was 1250 mm. The shock wave was generated by fracture of the diaphragm caused by the nitrogen or helium pressure of 5-30 atm produced in the high-pressure Card 1/8

on the transition probabilities, or the numbers f:

27175 8/057/61/031/009/015/019 B104/B102

Interference method by ...

chamber. Differently thick diaphragms were used. The spectral apparatus used consisted of a spectroscope with a plane diffraction grating and a concave mirror with a focal length of 175 cm. The authors studied interference patterns of mercury vapors the shock wave in the spectral range of 2500-5800 Å for Mach numbers of 6-11.5. The concentration of excited atoms increased with rising M; this increased the dispersion around the lines of the secondary series. The number of lines, near which hock-shaped dispersion patterns appeared, also increased. Dispersion was observed for M~6.5 near nine lines of the secondary series, for M~8 near 14 lines of the secondary series, and for M~9.5 near 18 lines of the secondary series. For M~11.5 a hook-shaped pattern was observed only near the lines of the visible triplet. At this value of M the shock wave propagated with 2000 m/sec. Table 1 gives the numbers N_k of atoms excited for M = 6.4-11.7 as determined from the dispersion patterns near the visible Hg triplet (4047 Å, 4358 Å, 5461 Å). Table 2 gives temperatures of Hg vapor for three Mach numbers. The data obtained permit some statements

Card 2/8

27175 s/057/61/031/009/015/019 B104/B102

Interference method by ...

 $f_{4358}: f_{4078}: f_{3132}: f_{3126}: f_{2894} = 100:4:159:87:18$ $f_{5461}: f_{3663}: f_{3655}: f_{3650}: f_{3341}: f_{3021} = 100: 16: 29: 209: 14: 75.$

The results prove the suitability of Rozhdestvenskiy's method for determining the transition probabilities of atoms. The authors thank S. E. Frish, Corresponding Member AS USSR, for attention and interest, as well as N. V. Sosulin, Laboratory Assistant, for his help. There are 5 figures, 2 tables, and 10 references: 7 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: E. Russel, The Physics of Fluids, 2, no. 2, 207, 1959; E. Brannen et al., Nature, 175, no. 4462, 7, 810, 1955.

ASSOCIATION: Fizicheskiy institut Leningradskogo universiteta (Physics Institute of Leningrad University)

Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe of the AS USSR, Leningrad)

Card 3/8

8/0057/64/034/001/0122/0127

AP 4009930

AUTHOR: Busysgin, E.P.; Tunakayev, 6.K.

Washing Co. Resident Science Co. TITLE: Measurement of the gas density behind a shock wave in a shock tube by an electron beam method

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.1, 1964, 122-127

TOPIC TAGS: density measurement, gas density measurement, electron gas density measurement, rapid gas density measurement, shock waves, argon shock waves, shock tube, shock tube shock waves

ABSTRACT: An apparatus is described for rapidly measuring gas densities in the pressure range from 10-2 to 10-mm Hg by observing the change in electron beam current due to scattering by gas molecules. Density changes occurring in times of the order of a few microsec can be followed with an accuracy of 8 to 10 percent. The electron beam apparatus was mounted on a 3 x 30-cm rectangular shock tube and was employed to investigate the densities behind shock waves. The 30-keV electron beam was produced by an electron gun from a television kinescope. The beam entered the shock tube through a 1-mm opening covered by aluminum foil 5-microns thick. This

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